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NOTICE OF ALLOWANCE AND FEE(S) DUE

77216

7590

12/15/2008

ALCATEL-LUCENT C/O GALASSO & ASSOCIATES, LP P. O. BOX 26503 AUSTIN, TX 78755-0503 EXAMINER

DUONG, FRANK

ART UNIT PAPER NUMBER

2416

DATE MAILED: 12/15/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751.153	12/31/2003	Mark Fine	134149	1808

TITLE OF INVENTION: ENHANCED DVMRP FOR DESTINATION-BASED FORWARDING OF MULTICAST DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (orders and notification of a) specifying a new co.	of m rresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
77216 7590 12/15/2008 ALCATEL-LUCENT C/O GALASSO & ASSOCIATES, LP P. O. BOX 26503 AUSTIN, TX 78755-0503			I S a	here State:	Cer eby certify that the s Postal Service we essed to the Mail	tificate is Fee(s vith suf Stop	of Mailing or Transı	deposited with the United t class mail in an envelope above, or being facsimile
								(Depositor's name)
								(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/751,153 TITLE OF INVENTION	12/31/2003 I: ENHANCED DVMRF	P FOR DESTINATION-E	Mark Fine BASED FORWARDING	G OI	F MULTICAST D	АТА	134149	1808
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/16/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		ר			
DUONG, FRANK 241		2416	370-390000	_				
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on the	ngle or ag attorn be p type e pal an a	firm (having as a gent) and the name news or agents. If wrinted.	memb es of up no nam	er a 2o to e is 3	ocument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta a. Applicant claim	itus (from status indicate as SMALL ENTITY stati	*	☐ b. Applicant is no	long	er claiming SMAI	L ENT	TITY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be acceptentes Patent and Trademark	ed from anyone other tha	_	_			e assignee or other party in
Authorized Signature					Date			
Typed or printed name			Registration No					
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 6 USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is y depending upon the in the Chief Information Of COMPLETED FORMS	or re estindivi- ficer TO	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes mment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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10/751,153	12/31/2003	Mark Fine	134149	1808	
77216 75	590 12/15/2008	EXAMINER			
ALCATEL-LUC	ENT	DUONG, FRANK			
	ASSOCIATES, LP	ART UNIT	PAPER NUMBER		
P. O. BOX 26503 AUSTIN, TX 78755-0503			2416 DATE MAILED: 12/15/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 847 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 847 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/751,153	FINE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Frank Duong	2416	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>communications date</u>	<u>d 09/29/08</u> .		
2. The allowed claim(s) is/are 16-23 (now 1-8, respectively).			
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).		
 Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have	been received in Application No.	· ·	
3. Copies of the certified copies of the priority do	cuments have been received in th	is national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		O-948) attached	
1) hereto or 2) to Paper No./Mail Date	•	,	
(b) ☐ including changes required by the attached Examiner's		e Office action of	
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application	
Notice of Preferences Great (FTG-932) Notice of Draftperson's Patent Drawing Review (PTG-948)	6. ☐ Interview Summa		
2. In Notice of Dialiperson's Latent Diawing Neview (FTO-346)	Paper No./Mail I	Date .	
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's Amer	ndment/Comment	
Paper No./Mail Date 4.	8. 🛚 Examiner's State	ment of Reasons for Allowance	
9. ☐ Other			
/Frank Duong/			
Primary Examiner, Art Unit 2416			

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DETAILED ACTION

1. This Office Action is a response to communications dated 09/29/08. Claims 16-23 are pending in the application.

Allowable Subject Matter

- 2. Claims 16-23 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record, considered individually or in combination, fails to fairly show or suggest claimed invention, comprising, among other limitation, novel and unobvious limitation of "if the DVMRP probe message detected by the first router is the first branch detected, transmitting, by the first router, a route report to neighbors on the first branch; ff the DVMRP probe message detected by the first router is other than the first branch detected, transmitting, by the first router, to any previously detected neighbors, a flash router report with unreachable metric for the newly detected branch; and transmitting, by the first router, to the newly detected branch a route report omitting reference to the previously detected branches and routes associated-with those branches," structurally and functionally interconnected with other limitations in a manner as recited in claims 16-23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2416

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Frank Duong whose telephone number is 571-272-

3164. The examiner can normally be reached on 7:00AM-3:30PM, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy D. Vu can be reached on 571-272-3155. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Frank Duong/

Primary Examiner, Art Unit 2416

December 8, 2008